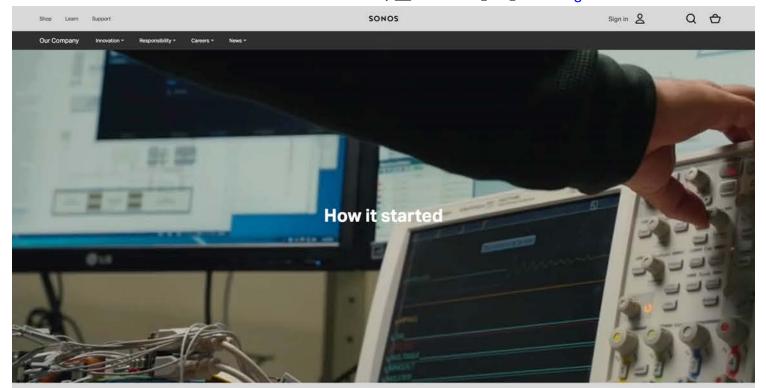
EXHIBIT 8



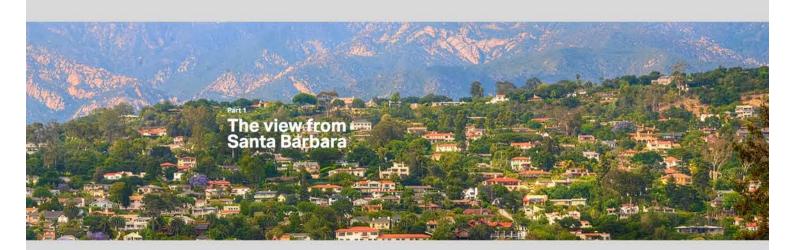
Fans of business success stories know the familiar arc they follow...

Hero-entrepreneur dreams up a great idea, finds a sidekick or two to help it come alive, clashes with and defeats the entrenched incumbent, and rides to clory as the credits roll.

The story of Sonos might seem like that, from a distance, its four founders - John MacFarlane, Tom Cullen, Trung Mal, and Craig Sheburne - conjured a daring vision based on technology that didn't exist at the time. Fueled with the insight earned from success in the first phase of Internet-based business-building, they conce as their extractions on the way to bring massic to every home - wirelessly, in multiple rooms, from PCs and the Internet, with avescence sound. They hired an amazing hat may be build an assign products from scratch, and music devotese all over the world found a new brand to fall in love with.

But what about a closer look?

What are the frustrations and failures they experienced on the journey? Are then larger lessons to be learned? The story of what Sonos did and is doing might be familiar to many. With first-ever details, what follows is the story of how.



John MacFarlane moved to Santa Barbara in 1990 to get his Ph.D. from University of California-Santa Barbara. Instead he saw the primitise of the Internet and bull's Offense.com along with Craig. Tom and Tring, After Software.com integrated with Phone.com in 2000 to create Openwave, they moved on to figure out together what to do next.

Whatever was going to be next, they knew they wanted to stay together, and stay in Santa Barbara, due to the roots they and their families had begun to establish there. It was, perhaps, the beginning of a habit of unorthodox choices to add

As Tom describes it, the view from Santa Barbara contained four big insights drawn, in his words, from being "at the core of the internet as it was blowing up":

Four big insights

First, the proiteration of standards meant the interest is a programmable brains and nervous systems of platform.

| Inst., the tour founders could see what the builders were buying, and that for networking, "what would be computers—integrated circuits, central state of computers—integrated circuits, central processing units, and other technologies —meant the computers—integrated circuits, central state of the builders were buying, and that for networking, "what would be getting started all around them, with mean's would create neithrough the computers—integrated circuits—integrated circuits—integra

With all of their experience, resources and insight, the four founders naturally turned to music in the home, and...

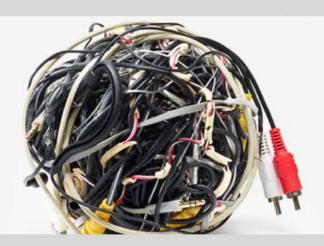
John's first pitch to his three partners was actually around avistion. The notion was an offering to enable local-area networks for LANs) for airplanes, with passenger services provided within them. That idea did not generate the enthusiasm John had anticipated, so it was back to the drawing board.

But that drawing board soon became filled with inspiration from the four friends' mutual love of music, and mutual frustration with the pain of storing hundreds of CDs, idealing with the tangled supported of stero and speaker wires, and enduring the expense of custom home wiring for multi-noon listening experiences. This became the opportunity to apply their unique talents, resources and insight.

The vision was simple: Help music lovers play any song anywhere in their homes.

The one problem, in 2002: Almost none of the necessary technology existed to achieve that. The next grant startup involving music and technology would take root between the global hube of both more than 90 miles from Los Angleies, and more than 250 miles from Silicon Valley. With a vision that was pure invagination.

Part 2 "These guys are kind of nuts."

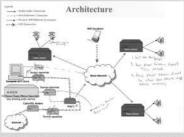


In 2002, great music in the home meant wires hidden behind bookshelves and fundture, connecting to speakers this size of bango drums, audio jacks plugged into the right holes on the backs of neceivers and players; physical media; primarily in the forms of compact discs and sapes - and if you wanted a multi-room experience, an atternoon for weekerned filling through walls to snake wires from a central receiver to speakers throughout your home.

While the original Napster had risen and fallers as a means to find music online to play on the personal computer, digital music was still new, and the idea of streaming music directly from the Internet was far-fetched. Pandora, Tiunes, Spothy, and the rest of today's pladers in music streaming services did not exist, nor did the iPhone. The top Internet service provider in 2002 was still America Online via dial-up, and fewer than 16 million U.S. households had high-speed broadhand.

Undaunted, the founders went to work acoping out their vision and seeking uniquely great talent to join them.

Their first step was to translate what they imagined onto paper.



The second step was recruiting singular talent—which took about as long.

Schulert felt the same affections for Soston as the founders had for Santa Barbara. Sonos opened its second office in Cambridge – with a promise to never view one office as more of a headquarters than the other.

It's worth asking how a no-name, long-shot company like Sonos could attract such world-class talent. Along with their earlier success with Software.com, the founders had a few big advantages: a reputation for technical expertise, an extensive network of great executives, engineers and designers, an eye for talent, – and a bold vision that inspired the daring.

This intrepid band went to work, holing up together in a large open room above the Santa Barbara restaurant El Paseo, with the afternoon smell of tortillas deep frying to make chips. The beginnings were not auspicious.

The room was arranged like a school classroom, with rows of deaks and John at the teacher's deak, elevated, recalled Nick Millington. The dre working on a prototype amplific, resting it with anse waves, which was annoying. I was trying to get the audio transport layer developed, and it kept not working and making horbite locales, right in hort of the ICC Watching new work all day. So I invested

While the challenge of inventing a multi-room wireless home audio system might have been enough, the team also collectively had made bright-line decisions around ase of use—meaning settley would have to be fast and intuitive for anyone, it would have to integrate with with any technology or service, and it would have to deliver superior sound in any home environment.



The sum of all those noble user-oriented, decisions is that technical problems threatened to overwhelm the small Sorios band of engineers and designers right from the start. Cross-stechnology integration meant choosing Unius as the technology platform, but not drivers existed at the time for audio, for controllers remote buttons or scroll wheels, or for the networking that was needed. The Sonos team had to build them.

The team faced a choice: allow each speaker to go fetch music independently, or have a master speaker fetch and distribute.

As Jonathan Lang elaborates, "The question was, distributed intelligence or central intelligence? We chose distributed, not because it was easier – it wasn'tibut because it was the right architecture for the experience we wanted to

"The question was, distributed intelligence or central intelligence? We chose distributed, not because it was easier – it wasn't! – but because it was the right architecture for the experience we wanted to deliver."

The team chose the latter as the best experience for the user, but that choice had its own domine effect here in 2003 do you manage buffering to guard against network interruption (which would stop music mid-song), and what happens if the user removes the master speaker from the group?

recritice ture for ye wanted to in what ultimately became one of Sonos' key patented technologies, the team customized a process called delegation expressly for multi-room, wireless music to enable transition for any and all speakers without any drop-offs. Along with a novel approach to time-stamping the digital bits of music playing via suice packets, they made it virtually impossible for a Sonos system to play music out of synch—and easy for users to link and unlink rooms, and to filing music to and from any room in the home.

"There was a lot of FUD then that it was impossible," recalls Nick Millington." basically started trying stuff, prototyping on PCs – just relying on judgment tests rather than academic tests."

And soon, one problem was solved. But only on PCs hooked up to each other as nodes in a network, because Sonce still had to craft its own hardware—and the PCs were weed longether. because the team was straggling with the wireless part. MacPariane was encouraging, but also unyleiding: the system had to work over Wi-FI.

In Jonathan Lang's words, this meant "we had to reinvent how devices communicate with each other. We could not, and did not, limit ourselves to what existed at the time."

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The team recognized mesh networking as the key, 89, 2003, it was a concept that faal seen use in highly mobile environments, size battlefelds, but never applied in the home or to the stringent demands of massic experience. To develop and implement, Sonos had two choices: an easier engineering solution at the expense of its ideal user experience, or making it simple and great for users and excruciatingly difficult for its engineers.

Lang explained why: "The alternative approach to networking would have besuse others' access points. We were convinced that would lead to a bad user experience – for example, someone in the house hitting 'print' would stop the music. Which would be awful."

The team dug in to add mean networking capability along with the rest of its advances, and by September 2003, it was time to show John and the rest of the leadership team a prototype. As with most prototypes, some parts worked perfectly, some showed promise, and some parts fluriked. The mean network capability showed up as especially incapable.

Sonos turned to Nick Millington, who had already established himself among his colleagues as an elite developer with his inventions in audio synch. It didn't matter, either to him or to the rest of the team, that he brought exactly zero experience in networking to the assignment. With the help of faculty UC-Senta Barbara, a consultant, and a vendor, Nick taught himself in six weeks about mesh networks while sale building on he from scratch for Sonos – on hardware Sonos was also designing from scratch.



His manager at the time, Andy Schulert, remembers: "Keep in mind that the notion of mean hetworking existed, but not in any audio products. Almost no one anywhere was working on embedded systems with WFI. There were no good Linux drivers with WFI. We were building our own hardware that we handn't fully steed. Nicks the steed individual steed developer I've ever worked with by far."

Kusano were leading the effort to write found to were leading the effort to write product specs, develop wireframes, test with user groups toward creating the right user experience presented in beautifully designed hardware.

Despite all the ingenuity at hand, the prototypes couldn't communicate wirelessly to each other from even ten feet apart. And particularly with embedded systems, at the time developer tools and debuggers did not exist.

"Keep in mind that the notion of mesh networking existed, but not in any audio products. Almost no one anywhere was working on embedded systems with WiFi. There were no good Linux drivers with WiFi. We were building our own hardware that we hadn't fully tested. Nick's the best developer I've ever worked

So Nick and John took a road trip, the prototypies stowed in a cardboard box in the back seast of John's car, to Silicon Valley to see John's friend and hardware supplied whose advice boiled down to one word: antennas.

This led to another round of grinding through arcane technical details around transmission standards lonly 802.11-big at the time), antenna selection and placement, network device drivers and spanning tree protocols, and the many ways human living spaces can rouse clinial interference. This was a time.

with, by far."

that none of the principals describe with any a lot of work, day after day, with incremental progress instead of euroka moments of big breakthroughs.

Developer's know that the most frustrating bugs are the so-called "irreproducible" bugs. Many of them emerged from testing at Sonos employee homes in and around Santa Barbara – including one especially frustrating bug, only reproducible at one person's house, that required a packet sniffer to identify and for.



Recalls Andy Schulert: "We've got our first 15 to 20 prototypes, we feel great about them, we take ten of them to someone's house to try it out. We set them up, and it's a colossal failure. They barely worked. We had to dial back to just two, figure out the issues, then add a third, and so on. Excruciating, but worth it."

By summer 2004. Sonos had tackled the bugs, prototypes were beginning to function with the necessary reliability, and the team had started sneak-peeking the system to others in the industry. This confirmed what they had been beginning to exognize the hard work to that point had paid off in the form of something genuinely new.

As Jonathan Lang explains, "I was responsible for capturing and protecting all the early intellectual property, and I firmly believed we were making the right design choices. But at the same time, every once in a white we'd raise our heads up from our work, realize we were all atons, and wonder "how come no one else is doing it?"

"I was responsible for capturing and protecting all the early intellectual property, and I firmly believed we were making the right design choices. But at the same time, every once in a while we'd raise our heads up from our work, realize we were all alone, and wonder 'how come no one else is doing it'?"

The industry reaction along the way was electric, featuring a demo at the 2004 Dr. All. Things Digital conference that put Sonos on the map. As the late Sieve Jobs was unvesting Apple's Arport Express on the main stage as its solution for home audione that required users to return to their computers to control the music - Sonos was in one of the hallways demonstrating more advanced functionally and full user control in the palm of the hand.

Breakthrough music experiences often debut with certain signature songs. MTV, for example, famously launched with "Video

Killed the Radio Star." by The Buggles.

How about Sonos? The first song played for the public on Sonos: first product, the ZP100, was The Beastie Boys: "No Sleep "If Brooklyn," at full volume, produced by longtime Sonos supporter/adviser Rick Rubin.

Sonos engineers could affirm the "no sleep" part because of all the work they'd put in leading up to the 2P100's launch. But getting the experience just right for customers required a more protectal approach to selecting songs for testing, dictated by the early days of scrolling through long alphabetical-order lists of songs and banks.

So the most-played song by Sonos engineers for testing was "SAM" by Matchbox 20, for no other reason than it was at the top of a list. The most-played band: 10,000 Maniacs.

Mieko Kusano recalls another encounter that summed it up:

"Among the first outsiders to see our early zone players were a team of engineers and executives from a well-known consumer technology company, it was our first meeting with this company, and it was before our aunch. We had our Zone Players up and running, our controllers up and running – and one of their guys took our controller and betted from the conference room. Totally took us by surprise. A few minutes listed, he comes back with the controller, all out of breath. He'd taken it all the way out to the parking lot to see if it would still work. And it did:"

The early industry encouragement didn't mean they were free from new settacks. Scross had committed to a fea 2008 ship schedule for its first products, and co-lounder Tung Mal had spent most of 2004 hopeoclothing, across Asia with floam models of the hardware to find the right contract manufacture. Once secured, Johanha Lang jumped in and book over responsibility for overseeing the factory lines – another career first for him. As the product lines were rolling, he noticed what he described as a "small issue" with the controllers, specifically with a give agent that wasn't working right.

"I had to make a call." he said. "But I already knew the Sonos thing to do was stop the line, scrap the products, be late, and go find a glue that worked. John and the leadership team let me make the right decision."



At long last, on January 27, 2005. Sonos shipped its first product, the ZP100. Industry accolades, strong product reviews, and positive media coverage followed soon after, and sustained over the first months and years of availability. Packagase taxol for school-flow of ability for the production positive or production. dean of product reviewers. Walt Mossberg (then at The Walt Street Journal, wrote. The Sonos System is easily the best music streaming product I have seen and tested.

With so much positive response from the media and industry, Sonos executives thought they'd be overwhelmed by a flood of revenues, instead, uales were decent, but not amazing. As forn Cullen described to Fortune in a 2012 profile on the company.

"We were just sitting there going, 'everybody loved this,'" recalls Cullen....

"Why aren't we going to \$500 million [in sales] in a day?" Then, the recession hit the company hard. "The world stopped, After all, nobody needs a Sonos," says, Callen, At the time, the company was working on a larger wereless speaker, but distrit have the capital to follow through. Some staffers, including Cullen, borrowed money from friends and resorted to paying employees out-of-pocket [Trung Mal, in particular, did this more than once, according to Cullen].

Sonos determinedly stayed the course, making key bets on next-generation systems and technologies with conviction that consumers would catch up. The company relead on Jushin institut to articipate trends and take advantage of them, even if it risked being too early.

Its second- and third-generation systems were efforts toward streaming direct to its players, taking the PC entirely out of the equation. They started in 2006, with Rhapsody as its first mustice service. It was a big turning point for the company, and it was not at all obvious at the time.

With the launch of the iPhone in 2007 and Apple's App Store sparking a boom for apps, Sonos Isunched its own, free app for iPhone users, meaning you could turn your iPhone in the controller, whotou tuying the Sonos remate, Kndroid users got their Sonos app in 2011, and Sonos phased out its own controller hardware in 2012.)

Then in November 2009, Sonos released the PLAYS, a truly smart, all-in-one speaker for \$400, about a third of the inaugural price of Sonos' original product, the ZP100 (which with speakers and controller, cost about \$1200 in 2005). Their hopes for sustained, strong sales growth were realized. This also marked a more decisive shift toward continual software upgrades for ongoing improvement in the products, an even-more-executing focus on sound quality, and closer relationships with recording artists and others in the creative community.

Those relationships took Sonos to a new dimension as a company. Sonos recognized that making music sound great in the home means asking the maker how they want their music to sound. Sonos quickly learned that, as exacting as its engineers and designers might be, there are no more demanding critics than musicians.

Sonos established early testing and feedback processes for its products with the creative community, involving producers, musicians and composers. With Trueplay, busnched in 2015, producer Rick Rubin headlined attern of advisers to bring the artists perspective into the product development process from its beginning.

Rick explained the genesis of flueplay when it was unveiled: "Anytime way general meak speakers in the studio, we his a professional to come in and tune the speakers to the room. Every room sounds different, so you need someone to come in and E0 flowes speakers for the space. So suggested to John, the founder of Sonos, that it would be interesting if there were a way to make the same technologies was walker for exemplosity."



Sonos as a brand and company built a sturdy foundation in those first years, when its culture first took shape – one that puts the experience first, is relevable so that the culture first took shape where people treat there customers as they would want to be treated. It continues to attract world-class talent looking to beponeers, who are willing to push themselves to break new ground, within a set of principles established in 2003.

A by-product of these principles is, without hyperbole, a fanatical obsession about quality. This obsession showed itself specifically in Jonathan Lang's decision, with Sonos leadership's strong support, to scrap a large quantity of manufactured products and start over again because of a small bit of glue—and more generally in the long, drawn-out grind to get the first wave of products easely right.

"User experience needs to be deep in the bones of a product, not on the skin. The right way to design is from the inside out. You don't design a technical architecture and then make it look pretty. You start with the customer. Hone in on the key areas where you are trying to make a difference and make it special. Then it's all hands on deck to re-invent."

It shows in Mieko Kusano's and Rob Lambourne's conviction to build sharp design and ease-of-use from the beginning to every phase of product development, with strict attention to detail.

Melo describes the approach: 'User experience reseds to be deep in the bones of a product, not on the sikin. The right way to design is from the inside out. You don't design a technical architecture and then make it look pretty. You start with the customer. Hore in on the key areas where you are trying to make a difference and make it special. Then it's all hands on deck to reserved."

Not many companies will go to the extreme of developing a new plastic resin, which Sonos did to help alimnate vibration and improve the versatility of its subvoorfers and speakers. Sonos cutture means extended deliberation and settlement of the size, runniber and placement of vent holes in the new PLAYFASE, of different sizes, for anyonic curiousl.



environment of creativity and precision is an impachagetic belief in protecting invention. One of Jonathan Lang's first assignments at Sonos, irrespective of lack of experience in artifectual property, was capturing each new Sonos advance in order to protect it through plastins. At Sonos, engineers and designers have maintained an enduring appreciation for Prights as a basis for competition, industry partnerships, and innovation.

Amidst all this pursuit of technical excellence. Sonos has kept its eye on its mission to fill every home with music. As Mieko Nusano says. Sonos is "By music lovers. For music lovers."

And in that way, the story concludes where it started. A group of people, in many rooms around the world, focused on a daring vision: any song, in any room, always sounding amazing.



Sources to Acknowledge

"Sonos Spins Into Control," Santa Barbara Independent, Matt Kettman, August 27, 2015.

"How Sonos Built the Perfect Wireless Speaker," Bloomberg, Ryan Bradley, October 30, 2014.

"The Story Behind the Wireless Music System 10 Years in the Making," Mashable Arny-Mae Elliot, December 8, 2011.

"How a Beatles producer is helping Sonos reimagine the way we hear music." Fast Company, John Paul Titlow, September 29, 2015.

"The Infinite Music Collection," Joel on Software blog, Joel Spolsky, November 9, 2006.

"Gadget That 'Streams' Music Around House is Terrific but Pricey," The Wall Street Journal, Walt Mossberg, February 24, 2005.

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